PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PC-21005950				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/IB2003/005269				International filing date (day/month/year) 20.11.2003		Priority date (day/month/year) 20.11.2003		
Internat			nt Classification (IPC) o	r both national classification	and IPC			
Applica NOKI		ORP	ORATION					
1. 7	This i	intern ority a	national preliminary e and is transmitted to	xamination report has been the applicant according to	en prepared by Article 36.	this International Preliminary Examining		
2. 1	Γhis	REPO	ORT consists of a tot	al of 5 sheets, including t	his cover sheet			
D	⊠	beer	n amended and are the	panied by ANNEXES, i.e. ne basis for this report and tion 607 of the Administra	d <i>l</i> or sheets conf	lescription, claims and/or drawings which have aining rectifications made before this Authority ander the PCT).		
٦	Thes	e anr	nexes consist of a tot	al of 5 sheets.				
3.	This	repor	t contains indications	relating to the following i	tems:			
ł	l	\boxtimes	Basis of the opinior	1				
Į.	II		Priority					
ı	Ш		Non-establishment	of opinion with regard to	novelty, inventiv	e step and industrial applicability		
I	V		Lack of unity of inve					
'	V 🛮 Reasoned statement under Rule 66.2(a)(ii) wit citations and explanations supporting such sta				vith regard to no tatement	ovelty, inventive step or industrial applicability;		
'	VI		Certain documents	cited				
•	VII		Certain defects in t	he international applicatio	n			
`	VIII		Certain observation	ns on the international app	blication			
Date of	f sub	missio	on of the demand		Date of compl	etion of this report		
10.06.2005				08.02.2006				
Name and mailing address of the international preliminary examining authority:			tional	Authorized Of	FICOR			
European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016				rs Bas	Pascual Va	llés, E		
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/IB2003/005269

l.	Ba	sis	of	the	re	port	t
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages	
	1-17	•	as originally filed
	Clai	ms, Numbers	
	1-17		as amended (together with any statement) under Art. 19 PCT
	Dra	wings, Sheets	
	1/6-6	6/6	as originally filed
2.	With lang	n regard to the langua luage in which the inte	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).
		• •	ication of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).
3.	With inte	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inter	rnational application in written form.
		filed together with the	e international application in computer readable form.
		furnished subsequen	ntly to this Authority in written form.
			ntly to this Authority in computer readable form.
		in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	amendments have re	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/IB2003/005269

5 П	This report has been established as if (some of) the amendments had not been made, since they have
Ų. <u> </u>	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

8,9,16

Claims No:

1-7,10-15,17

Inventive step (IS)

Yes: Claims

No:

Claims

1-17

Industrial applicability (IA)

Yes: Claims

1-17

No: Claims

2. Citations and explanations

see separate sheet

The following documents (D1 and D2) were not cited in the international search report. Copies of the documents are appended hereto.

D1: GB-A-2 387 063 (NEC CORP) 1 October 2003 (2003-10-01)

D2: US 2001/004269 A1 (NEC CORP) 21 June 2001 (2001-06-21)

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of independent claim 1 is not new in the sense of Article 33(2) PCT.

The document D1 discloses (the references in parentheses applying to this document):

A communication apparatus (fig,1A-1E, ref.500) comprising a first housing member (fig.1A-1E, ref.200) and a second housing member (fig,1A-1E, ref.100), which are mechanically interconnected (fig.1A-1E, ref.300) so that said first housing member is foldable (fig.1A and 1B) as well as turnable (fig.1C-1E) with respect to said second housing member so as to assume different operating positions (page 5, lines 16-25), said communication apparatus having a user interface including a dispiay (fig.1B-1E, ref.202) and a manual input means (fig.1B-1E, ref.207, page 6, lines 2-5, page 12, lines 3-15), and a processing device (fig.4, ref.109, page 11, line 19-page 14, line 10) for providing services to a user through said user interface, wherein said display is located in said first housing member,

said manual input means comprises a first set of keys (fig.1B-1E, ref.207, page 12, lines 3-15) comprised in said first housing member, and a second set of keys (fig.1B-1E, page 6, lines 2-5) comprised in said second housing member, wherein a plurality of said services are controllable by said user through said first set of keys,

said operating positions including a compact position (fig.1E) in which said first housing member is folded against said second housing member, wherein said first set of keys and said display are accessible to, and said plurality of said services are controllable by, said user in said compact position, and

said operating positions including an open position (fig.1B) in which said first

housing member is unfolded from said second housing member, wherein said first set of keys and said display as well as said second set of keys are accessible to, and said plurality of said services are controllable by, said user in said open position.

The subject-matter of claim 1 is therefore not new (Article 33(2)PCT). Furthermore, document D2 is also considered to be prejudicial against the novelty of this claim, as it discloses all its features (see D2, fig.1-13, paragraphs [201]-[234]).

- 1.1. The same reasoning applies, mutatis mutandis, to the subject-matter of the independent claim 12 which therefore is also considered not new/inventive.
- Dependent claims 2-11 and 13-17 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1 and D2.
- 3. The subject-matter of claims 1-17 relates to a communication apparatus comprising two housing members mechanically interconnected and being foldable and turnable with respect to each other and has an industrial application.

AMENDED CLAIMS UNDER ART 19 PCT

1. A communication apparatus (1) comprising a first housing member (100) and a second housing member (200), which are mechanically interconnected so that said first housing member is foldable as well as turnable with respect to said second housing member so as to assume different operating positions, said communication apparatus having a user interface (334) including a display (110) and manual input means (120, 220), and a processing device (300) for providing services (340-346) to a user through said user interface, wherein said display is located in said first housing member,

characterized in that

said manual input means comprises a first set of keys (120) comprised in said first housing member (100), and a second set of keys (220) comprised in said second housing member (200), wherein a plurality of said services (340-346) are controllable by said user through said first set of keys,

said operating positions including a compact position in which said first housing member (100) is folded against said second housing member (200), wherein said first set of keys (120) and said display (110) are accessible to, and said plurality of said services (340-346) are controllable by, said user in said compact position, and

said operating positions including an open position in which said first housing member (100) is unfolded from said second housing member (200), wherein said first set of keys (120) and said display (110) as well as said second set of keys (220) are accessible to, and said plurality of said services (340-346) are controllable by, said user in said open position.

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- 2. A communication apparatus according to claim 1, wherein said first set of keys (120) and said display (110) are arranged in essentially the same plane.
- 3. A communication apparatus according to claim 2, wherein said same plane coincides with or is parallel to a front side (100a) of said first housing member (100).
- 4. A communication apparatus according to any preceding claim, wherein a telephone application for performing speech communication in the form of telephone calls is included in said plurality of said services (340-346).
- 5. A communication apparatus according to any preceding claim, wherein said plurality of said services (340-346) comprises at least two services selected from the following group:
- a telephone application for performing speech communication in the form of telephone calls,

an Internet browser application (340),

- a WWW browser application,
- a WAP browser application,
- a phonebook application (342),
- 25 a contacts application,

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- a camera application (344),
- an image recordal application,
- a video recordal application,
- a messaging application (346),
- 30 an email application,
 - an SMS application,
 - an MMS application,
 - a calendar application,
 - an organizer application,
- 35 a video game application,
 - a calculator application,
 - a voice memo application,

an alarm clock application,
a word processing application,
a code memory application,
a music player application,
a media streaming application, and
a control panel application.

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- 6. A communication apparatus according to any preceding claim, further comprising a camera (205), said operating positions including a camcorder position in which said first housing member (100) is unfolded as well as turned with respect to said second housing member (200), wherein said first set of keys (120) and said display (110) are accessible to, and a camera application (344) among said services (340-346) is controllable by, said user in said camcorder position.
- 7. A communication apparatus according to claim 6,
 20 said operating positions including a self-portrait
 position in which said first housing member (100) is
 unfolded with respect to said second housing member (200)
 and turned by substantially 180° with respect to said
 camcorder position, wherein said first set of keys (120)
 25 and said display (110) are accessible to, and a camera
 application (344) among said services (340-346) is
 controllable by, said user in said self-portrait
 position.
- 30 8. A communication apparatus according to any preceding claim, wherein said first set of keys (120) comprises at least one context-sensitive key (122, 123), the function of which depends on an active one of said plurality of said services (340-346) that currently is controlled through said user interface (334).

- 9. A communication apparatus according to any preceding claim, wherein said first set of keys (120) comprises at least one navigation key (121) for multidirectional navigating and selecting actions in said user interface (334).
- 10. A communication apparatus according to any preceding claim, wherein said second set of keys (220) includes a group of keys that constitutes a telephonetype (PIN, IT-U) keypad and includes digit keys 0 through 9.
- 11. A communication apparatus according to any preceding claim, in the form of a mobile terminal for a mobile telecommunication system such as GSM, D-AMPS, CDMA2000 or UMTS.
- 12. A communication apparatus (1) comprising a first housing member (100), a second housing member (200) and a 20 hinge assembly (10, 11) having a first hinge functionality connecting the first and second housing members pivotally to each other, and a second hinge functionality allowing one of said first and second housing members to turn relatively to the other housing member,

25 characterized in that

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said first housing member (100) comprises a display (110) and a set of keys (120) for operating the communication apparatus (1), and in that

said hinge assembly (10, 11) allows said first and second housing members (100, 200) to assume first and second closed positions in which said first and second housing members are folded against each other, as well as an open position in which said first and second housing members are unfolded from each other,

wherein, in said first closed position, said display and said set of keys (120) of said first housing member face towards said second housing member, and wherein, in said second closed position as well as in said open position, said display and said set of keys (120) of said first housing member are exposed and allow a user to operate said communication apparatus.

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13. A communication apparatus according to claim 12, wherein a plurality of services (340-346) provided by said communication apparatus are controllable through said set of keys (120) in said second closed position.

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- 14. A communication apparatus according to claim 13, wherein said plurality of services (340-346) includes speech communication in the form of telephone calls.
- 15. A communication apparatus according to any one of claims 13 or 14, wherein said set of keys (120) comprises at least one context-sensitive key (122, 123), the function of which depends on an active one of said plurality of services (340-346).

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- 16. A communication apparatus according to any one of claims 13-15, wherein said set of keys (120) comprises at least one navigation key (121) for multi-directional navigating and selecting actions in an active one of said plurality of services (340-346).
- 17. A communication apparatus according to any one of claims 12-16, in the form of a mobile terminal for a mobile telecommunication system such as GSM, D-AMPS, CDMA2000 or UMTS.